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Reserve

SNOW SURVEYS

and WATER SUPPLY OUTLOOK for

ALASKA



SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

ALASKA SOIL CONSERVATION DISTRICT

AS OF
MAR. 1, 1980

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: THE SNOTEL PROJECT CENTRAL COMPUTER FACILITIES IN PORTLAND, OREGON. THE TERMINAL, PRINTER, COMPUTER AND TAPE DRIVES HAVE NOT COMPLETELY REPLACED THE SNOW SAMPLING TUBES SEEN IN THE FOREGROUND.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



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SNOW SURVEYS
AND
WATER SUPPLY OUTLOOK
FOR
ALASKA

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UPPER LONG LAKE SNOW PILLOW INSTALLATION, NEAR JUNEAU

ALASKA SUMMARY

as of

MARCH 1, 1980

Snowpack in the mountains of Southcentral Alaska is maximum for the 23 years of record, with many snow courses at better than 200 percent of normal. The avalanche danger has been extreme--the Seward Highway south of Anchorage has been blocked by snowslides a record 41 times, totalling 10 days of highway closures.

Temperatures throughout Alaska have been warmer than usual. This produced some rain instead of snow at lower elevations in the southern one-third of the state.

The interior, by comparison, has been much drier. The Brooks Range and Kuskokwim headwaters are above average, while the Upper Yukon-Tanana region ranges from near average to only one-half of the normal snow cover. The Chena River drainage east of Fairbanks is the focal point of the sparsely snow-covered area.

Area summaries are as follows:

Koyukuk Drainage

Snowpack in this drainage is 25-30% above normal. It generally increases moving north along the pipeline corridor. Due to lack of funding, the key course at Anaktuvuk Pass will not be measured this year.

Upper Yukon Drainage

Snowpack in the Eastern Brooks Range is slightly above average, which is 20% above what it was last year. The Yukon Flats snow courses are slightly below average, as are the courses south of the Flats.

Kuskokwim Drainage

Snow cover is generally 20-30% above normal. The headwaters, as indexed by the Lake Minchumina course, are 35% above normal. Ten new snow courses were initiated in the Upper Kuskokwim region this year, with good results.

Tanana-Chena Drainage

Snowpack in the upper Tanana Valley ranges from about average at Ft. Greely to 23% below at Tok. Passes through the Alaska Range are quite variable. Mentasta Pass is about 10% below, while Isabelle Pass along the Richardson Highway is 10% above. The region is well below last year's snowcover.

Snowpack in the Chena River-Fairbanks area is generally well below normal. Stream-flow in the Chena River is forecast to be 60% of the normal 15 year average for the April-July run-off period. This is roughly the same condition which existed last year at this time.

Copper River Drainage

Snowpack is mostly below average as indicated by the few measured courses. The north side of the Chugach Mountains and the Talkeetna Mountains are well above normal.

Matanuska-Susitna River Drainage

Snow cover is above average for the few courses measured as of press time. Talkeetna is 7% below average and Skwentna is 17% above average. These conditions are similar to those that existed this time last year. The higher elevation courses at Independence Mine and Sheep Mountain are maximum of record for March 1st.

Chugach Mountains and Kenai Peninsula

A most unusual snowpack covers this large region bordering the Gulf of Alaska. The mountainous areas have the heaviest snow cover ever measured on March 1st. At Thompson Pass, north of Valdez, the record extends back to 1958. This year, including 1977 and 1979, makes the third year out of the last four that have had far above average snowfall. The Kenai Mountains are the heaviest of all, percentage-wise, where the pack is better than double the normal amounts.

This is the result of continual funneling into the region of warm, moisture-laden

storms out of the Pacific Ocean. This type of storm produces very intense snow-fall rates which further produces extreme avalanche hazard. The degree of hazard for this year can be stated most simply as being the worst to date. Evidence of this can be seen along the Seward Highway south of Anchorage where enormous avalanches have crossed the highway more than 40 times up to March 1st.

Melting snowpacks will also produce heavy streamflow during the early summer months. Bank full or near bank full streamflow can be counted on to last for longer periods than usual. Ship Creek, near Anchorage, is forecast to nearly double the total volume of snowmelt run-off produced for April-July period.

Southeastern Drainage

The snowpack is generally below average due to the mild winter.

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
BASIN, STREAM and/or FORECAST POINT					
YUKON RIVER at Eagle	31,400	90	Apr.-July	NA ^{1/}	34,800
PORCUPINE RIVER at Ft. Yukon	5,900	80	Apr.-July	NA	7,400*
SALCHA RIVER near Salchaket	400	59	Apr.-July	NA	677
CHENA RIVER at Fairbanks	307	60	Apr.-July	NA	516
LITTLE CHENA RIVER near Fairbanks	52	60	Apr.-July	NA	87*
YUKON RIVER at Ruby	57,900	89	Apr.-July	NA	64,700
SHIP CREEK near Anchorage	104	187	Apr.-July	NA	55
SOUTH FORK CAMPBELL CREEK at Canyon Mouth near Anchorage	20.5	167	Apr.-July	NA	12.3
^{1/} Not Available * Estimated					
	3				

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			LAST YEAR		HISTORICAL AVERAGE		
			Date of Survey	Snow Depth (inches)	Water Content (inches)	Snow Depth (inches)	Water Content (inches)	Snow Depth (inches)	Water Content (inches)	Years of Previous Record
NAME	Number	Elevation								
DELAYED FEBRUARY 1 DATA										
SOUTHEAST:										
Cropley Lake	94	1650	2/3	57	18.0	NO SURVEY	---	---	---	---
Eaglecrest	95	1000	2/2	43	13.8	NO SURVEY	---	---	---	---
Fish Creek	96	500	2/2	32	8.5	NO SURVEY	---	---	---	---
KENAI PENINSULA:										
Bradley Cirque	New	3350	2/13	158	56.5	NO SURVEY	---	---	---	---
Ptarmigan Hills	New	1200	2/13	102	51.7	NO SURVEY	---	---	---	---
Windy River	New	950	2/13	52	18.0	NO SURVEY	---	---	---	---
TANANA-CHENA:										
Bonanza Creek	66	1150	2/11	14	2.4	NO SURVEY	---	22	3.7	7
Caribou Creek	68	1440	2/12	13	2.8	24	4.0	23	4.0	10
Caribou Creek Snow Pillow	69	1025	2/12	12	2.6	19	3.5	21	3.8	10
Colorado Creek	63	750	2/7	14	1.8	22	4.2	23	4.1	14
Haystack Mountain	67	1950	2/12	20	3.8	26	4.9	27	5.6	17
AS OF MARCH 1, 1980										
KOYUKUK DRAINAGE:										
Anaktuvuk Pass	75	2100	N O	S U R V E Y	---	15	2.6	18	3.0	11
Bettles Field	74	640	2/25	33	7.0	27	6.1	32	6.3	12
Coldfoot	109	1000	2/28	34	8.3	NO SURVEY	---	33	6.4	9
Dietrich River	110	1550	2/29	24	4.5	NO SURVEY	---	23	3.6	9
Lake Todatonten	73	980	2/25	19	4.0	NO SURVEY	---	25	4.9	10
Prospect Creek	108	980	2/28	29	7.0	NO SURVEY	---	25	5.5	9
Table Mountain	111	2200	2/29	27	5.7	NO SURVEY	---	23	3.9	7
West Buttons	New	1600	2/25	28	5.3	NO SURVEY	---	---	---	---
YUKON DRAINAGE:										
Arctic Village	78	2300	2/26	23	3.9	15	2.4	20	3.1	16
Black River	84	640	2/26	18	3.0	19	3.4	22	3.7	15
Boundary	90	3300	3/4	17a	3.5e	32a	5.8e	24	4.2	13
Chandalar Lake	76	2040	2/25	18a	3.1e	16	2.5	20	3.2	14
Chicken Airstrip	91	1650	3/4	15	2.3	21	3.6	16	2.6	15
Circle City	85	600	2/26	21	3.4	26	4.4	24	3.8	15
Circle Hot Springs	86	860	2/26	20	3.3	24	4.7	21	3.5	4
Coleen River	80	1100	2/26	18a	2.9e	14a	2.2e	18	2.8	14
Dempsey Creek	87	950	N O	S U R V E Y	---	NO SURVEY	---	22	3.9	11
Eagle Village	89	900	3/4	21	3.8	27	4.9	22	4.1	15
Five-Mile Camp	106	400	2/28	26	5.4	NO SURVEY	---	25	4.4	9
Fort Yukon	83	430	2/25	16	3.0	19	3.3	20	3.2	14
Hess Creek	126	1000	2/28	24	5.4	NO SURVEY	---	---	---	---
Koness Lake	79	1790	2/26	18	2.9	14	2.1	18	2.8	12
Log Cabin (B.C.)	105	2880	2/25	52	14.6	40	10.3	43	11.4	19
Mt. Fairplay	92	3100	3/4	7a	1.6e	28a	5.1e	19	4.8	10
Nation River	88	3050	3/4	21a	4.5e	32a	5.8e	27	5.3	7
Squaw Lake	77	2150	2/25	27	4.8	14a	2.2e	20	3.1	13
Thirty Mile	107	1300	2/28	40	10.0	NO SURVEY	---	32	6.4	5
Venetie	82	610	2/25	18a	2.9e	NO SURVEY	---	17	2.7	15
Vundik Lake	81	950	COURSE	ABANDONED	---	14a	2.2e	17	2.7	12
KUSKOKWIM DRAINAGE:										
Blackwater Creek	New	600	2/27	25	5.5	NO SURVEY	---	---	---	---
Farewell Lake	70	1090	2/26	20	3.5	15	2.6	16	2.9	12
Fishtrap Lake	New	1800	2/27	52	14.4	NO SURVEY	---	---	---	---
a - aerial marker reading e - estimated										

+ FOR PERIOD OF RECORD

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			LAST YEAR		HISTORICAL AVERAGE +		
NAME	Number	Elevation	Date of Survey	Snow Depth (inches)	Water Content (inches)	Snow Depth (inches)	Water Content (inches)	Snow Depth (inches)	Water Content (inches)	Years of Previous Record
<u>KUSKOKWIM DRAINAGE, Continued:</u>										
Lake Minchumina	71	730	2/26	21	5.0	24	4.8	20	3.7	13
McGrath	New	340	2/27	25	5.3	NO SURVEY	---	---	---	---
Moore Creek	New	950	N O	S U R V E Y	---	NO SURVEY	---	---	---	---
Necons River	New	1050	2/27	18	4.8	NO SURVEY	---	---	---	---
Purkeypile Mine	New	2050	2/28	23	4.2	NO SURVEY	---	---	---	---
Slow Fork	New	1300	2/28	20	3.5	NO SURVEY	---	---	---	---
Tatalina Field	New	850	2/28	31	6.8	NO SURVEY	---	---	---	---
Towahmina Lake	New	600	2/26	22	4.3	NO SURVEY	---	---	---	---
<u>TANANA-CHENA:</u>										
Big Delta	52	980	2/29	15	2.1	18	3.2	17	2.8	19
Bonanza Creek	66	1150	DELAYED DATA	---	---	22	4.1	22	4.1	12
Caribou Creek	68	1440	DELAYED DATA	---	---	22	4.0	23	5.2	9
Caribou Creek Snow Pillow	69	1025	DELAYED DATA	---	---	20	4.0	20	3.8	9
Caribou Mine	55	1115	3/1	17	3.1	27	4.8	24	4.9	14
Cleary Summit	64	2230	2/26	15	2.6	26	4.9	28	5.7	19
Colorado Creek	63	750	2/25	12	2.0	25	4.7	23	4.5	14
Fielding Lake	49	3000	2/29	38	10.0	48	14.7	41	9.0	17
Fort Greely	50	1420	2/29	16	3.0	21	3.8	17	3.1	13
French Creek	53	2010	2/29	17	3.2	26	5.7	27	5.6	17
Granite Creek	51	1240	2/29	16	2.7	21	4.2	16	3.0	12
Haystack Mountain	67	1950	DELAYED DATA	---	---	26	4.9	27	5.6	17
Jack River	138	2450	3/1	29	8.5	19	3.6	---	---	3
Little Chena Bottom	New	1100	3/1	12	1.8	23	3.8	---	---	3
Little Chena Ridge	62	2200	3/1	20	3.7	NO SURVEY	---	26	5.2	14
Little Chena Slope	New	1460	N O	S U R V E Y	---	NO SURVEY	---	---	---	2
Little Salcha	54	1500	2/29	14	2.9	26	5.8	24	5.0	17
Lower Chena	59	2000	N O	S U R V E Y	---	NO SURVEY	---	30	6.6	4
Mentasta Pass	47	2430	2/29	15	3.2	39	9.8	26	5.2	17
Monument Creek	60	1900	3/1	14	2.8	NO SURVEY	---	23	4.4	5
Mt. Ryan	61	2950	3/1	21	4.5	NO SURVEY	---	29	6.1	14
Munson Ridge	56	3100	3/1	26	5.6	37	9.5	40	10.3	15
Teuchet Creek	57	1640	3/1	17	3.2	25	4.8	21	4.3	7
Tok Junction	46	1650	2/29	15	2.4	29	4.1	18	3.1	19
Totchaket	New	350	N O	S U R V E Y	---	NO SURVEY	---	---	---	---
Upper Chena	58	3000	3/1	18	3.7	NO SURVEY	---	30	7.2	10
Upper Chena Pillow	New	2850	3/1	25	5.2	NO SURVEY	---	---	---	---
Wien Lake	72	1020	N O	S U R V E Y	---	24	4.8	20	3.6	12
Yak Pasture	65	540	2/25	12	2.0	22	3.5	22	4.1	18
<u>COPPER RIVER:</u>										
Haggard Creek	48	2540	2/29	24	4.6	47	12.5	28	5.7	14
Kenny Lake School	New	1400	2/28	24	5.4	NO SURVEY	---	---	---	---
Little Nelchina	31	4160	DELAYED DATA	---	---	29a	5.5e	24	4.6	12
Mankomen Lake	45	3050	DELAYED DATA	---	---	NO SURVEY	---	30	5.8	12
St. Anne Lake	28	1990	DELAYED DATA	---	---	23	4.2	22	4.3	15
Sanford River	27	2280	DELAYED DATA	---	---	34	7.6	24	4.3	13
Tsaina River	35	1500	2/27	74	25.4	44	12.5	51	13.4	7
Worthington Glacier	36	2400	2/27	101	34.7	48	17.1	22	4.1	18
<u>MATANUSKA-SUSITNA:</u>										
Alexander Lake	18	200	2/29	45	11.8	46a	12.9e	40	9.6	16
Bald Mountain Lake	23	2150	2/29	35a	9.4e	19a	4.4e	27	5.9	15
Chelatna Lake	20	1650	2/29	31a	10.8e	35a	10.0e	37	8.5	16
Clearwater Lake	26	3100	N O	S U R V E Y	---	33a	7.3e	25	4.8	14
Devil's Canyon	124	1350	N O	S U R V E Y	---	30a	6.9e	---	---	3
Dutch Hills	New	3100	2/29	114a	40.0e	NO SURVEY	---	---	---	---
Fog Lakes	24	2250	2/29	32a	7.0e	27	5.5	25	5.1	10
Independence Mine	33	3300	2/27	69	26.0	60	22.1	54	15.3	13
Lake Louise	29	2400	N O	S U R V E Y	---	23	4.0	21	3.6	15
Monahan Flat	25	2710	N O	S U R V E Y	---	35	7.8	30	6.3	15

a - aerial marker reading e - estimated

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DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			LAST YEAR		HISTORICAL AVERAGE "		
NAME	Number	Elevation	Date of Survey	Snow Depth (inches)	Water Content (inches)	Snow Depth (inches)	Water Content (inches)	Snow Depth (inches)	Water Content (inches)	Years of Previous Record
<u>MATANUSKA-SUSITNA, Continued:</u>										
Oshetna Lake	30	2950	DELAYED DATA	-	-	23	3.8	20	3.3	15
Peters Hills	21	2010	DELAYED DATA	-	-	43a	12.5e	51	12.1	12
Ramsdyke Creek	New	2100	DELAYED DATA	-	-	NO SURVEY	-	-	-	-
Sheep Mountain	34	2900	2/28	44	11.1	30	6.2	24	4.7	7
Skwentna	19	160	2/29	36	9.7	43	13.1	37	8.3	12
Talkeetna	22	350	2/29	26	6.3	30	8.1	30	6.8	13
Tokositna Valley	New	850	2/29	58a	18.0e	NO SURVEY	-	-	-	-
Willow Airstrip	31	150	DELAYED DATA	-	-	36	9.8	29	6.2	16
<u>UPPER COOK INLET:</u>										
Arctic Ski Bowl	5	3000	2/28	47	12.6	47	18.5	40	10.7	16
Arctic Valley #1	1	500	2/28	10	3.4	19	3.6	14	2.9	16
Arctic Valley #2	2	1000	2/28	19	5.8	21	4.9	14	3.1	16
Arctic Valley #3	3	2030	2/28	32	7.8	31	9.2	25	5.4	16
Arctic Valley #4	4	2330	2/28	30	8.4	32	9.6	26	6.0	16
Bird Creek	8	2350	N O	S U R V E Y	-	NO SURVEY	-	46	13.9	12
Eagles Nest	New	4050	3/1	81	31.6	NO SURVEY	-	-	-	-
Gravel Bar	New	3200	3/1	84	33.1	NO SURVEY	-	-	-	-
Indian Pass	7	2350	3/1	90	32.9	60	21.6	60	17.7	13
McArthur	17	120	N O	S U R V E Y	-	NO SURVEY	-	62	16.7	13
Mt. Alyeska	10	1200	3/2	120	48.3	63	21.3	106	31.7	7
N. Fork Ship Creek	New	3600	N O	S U R V E Y	-	NO SURVEY	-	-	-	-
Raven Ridge	New	1200	3/1	44	14.9	NO SURVEY	-	-	-	-
Ship Creek	6	1750	3/1	55	17.9	37	11.7	36	9.1	13
S. Fork Campbell Creek	9	1200	2/29	27	8.2	NO SURVEY	-	27	5.7	5
<u>PRINCE WILLIAM SOUND:</u>										
Lowe River	37	550	2/27	64	21.2	43	12.3	49	14.0	7
Valdez	38	50	2/28	58	20.0	42	12.3	50	15.2	7
<u>KENAI PENINSULA:</u>										
Bertha Creek	11	850	2/27	86	26.7	46	12.5	46	12.7	10
Bradley Cirque	New	3350	N O	S U R V E Y	-	NO SURVEY	-	-	-	-
Bridge Creek, Lower	16	1100	2/26	60	17.9	40	12.3	42	11.2	8
Bridge Creek, Upper	15	1300	2/26	57	17.0	41	12.5	41	10.9	7
Demonstration Forest	147	770	2/26	48	13.7	33	9.1	25	7.4	3
Fox Creek	145	1500	2/27	57	16.2	33	8.4	-	-	2
Jean Lake	14	620	2/27	18	6.0	17	3.5	14	2.9	10
Kenai Moose Pens	New	300	2/28	15	4.2	NO SURVEY	-	-	-	-
Kenai Summit	12	1390	2/27	69	21.9	39	10.1	42	10.3	9
Moose Pass	13	700	2/27	45	16.0	23	5.6	19	4.8	10
Pass Creek	144	1200	2/25	53	15.3	30	7.0	-	-	2
Portage Valley	New	50	2/27	54	22.6	NO SURVEY	-	-	-	-
Ptarmigan Hills	New	1200	N O	S U R V E Y	-	NO SURVEY	-	-	-	-
Resurrection Pass	146	2250	2/21	64	19.4	32	9.4	-	-	2
Windy River	New	950	N O	S U R V E Y	-	NO SURVEY	-	-	-	-
<u>SOUTHEAST ALASKA:</u>										
Cropley Lake	94	1650	3/2	52	18.9	84	34.0	-	-	2
Eaglecrest	95	1000	3/1	38	14.3	64	24.0	-	-	3
Fish Creek	96	500	3/1	28	8.6	36	10.0	-	-	3
Hunt Saddle	103	1500	N O	S U R V E Y	-	NO SURVEY	-	116	40.9	4
Lake Shore	104	660	N O	S U R V E Y	-	NO SURVEY	-	75	28.2	4
Pet Ridge, North	New	1600	3/3	50	18.7	101	32.5	-	-	2
Pet Ridge, South	New	1650	3/3	38	14.6	101	34.2	-	-	2
Petersburg Reservoir	99	550	2/28	24	8.7	73	17.7	-	-	2
Speel River	98	280	3/2	51	17.2	NO SURVEY	-	85	29.0	14
a - aerial marker reading e - estimated										

+ FOR PERIOD OF RECORD

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			LAST YEAR		HISTORICAL AVERAGE ⁺		
NAME	Number	Elevation	Date of Survey	Snow Depth (inches)	Water Content (inches)	Snow Depth (inches)	Water Content (inches)	Snow Depth (inches)	Water Content (inches)	Years of Previous Record
WYOMING PRECIPITATION GAGES			DATE	INCREMENT SINCE LAST READING				ACCUMULATIVE TOTAL		
<u>BROOKS RANGE:</u>										
Atigun Camp	125	3400	9/24	I N I T I A L		R E A D I N G				
Atigun Pass	123	4900	9/24	I N I T I A L		R E A D I N G				
Chandalar Shelf	122	3400	9/24	I N I T I A L		R E A D I N G				
<u>NORTH SLOPE:</u>										
Barrow	115	15	10/1	I N I T I A L		R E A D I N G				
			10/15	0.3				0.3		
			11/1	0.3				0.6		
			11/15	0.1				0.7		
			12/1	0.4				1.1		
			12/15	0.3				1.4		
			1/2	0.4				1.8		
			1/15	0.0				1.8		
			2/1	0.3				2.1		
			2/15	0.5				2.6		
			3/1	0.1				2.7		
Barter Island	117	15	9/6	I N I T I A L		R E A D I N G				
Jago River	121	550	9/6	I N I T I A L		R E A D I N G				
Kavik River	118	200	9/6	I N I T I A L		R E A D I N G				
Meade River	116	200	9/1	I N I T I A L		R E A D I N G				
Prudhoe Bay	114	30	9/27	I N I T I A L		R E A D I N G				
			11/7	1.7				1.7		
			12/4	1.4				3.1		
			1/1	1.0				4.1		
			1/8	1.1				5.2		
			3/1	0.6				5.8		
Sagwon	113	1000	9/27	I N I T I A L		R E A D I N G				
Toolik River	112	3100	9/30	I N I T I A L		R E A D I N G				
<u>TANANA-CHENA:</u>										
Murphy Dome	New		10/25	I N I T I A L		R E A D I N G				
			12/18	1.2				1.2		
			1/28	0.6				1.8		
			2/26	0.2				2.0		

⁺ FOR PERIOD OF RECORD





MAP NO.	COURSE NAME	EAS. DATES *	MEAS. BY *
1	Arctic Valley #1	3,4	a
2	Arctic Valley #2	3,4	a
3	Arctic Valley #3	3,4	a
4	Arctic Valley #4	3,4	a
5	Arctic Ski Bowl	3,4,7	a
6	Ship Creek	3,4	a
7	Indian Pass	3,4,7	a
8	Bird Creek	3,4,7	a
9	South Campbell Cree	3,4,7	a
10	Mt. Alyeska	3,4,7	a
11	Bertha Creek	3,4	a
12	Kenai Summit	3,4	a
13	Moose Pass	3,4	f
14	Jean Lake	3,4,7	f
15	Bridge Creek (UP)	3,4	f
16	Bridge Creek (LO)	3,4,7	f
17	McArthur	3,4,5	f
18	Alexander Lake	3,4,5	b
19	Skwentna	1,2,3,4	b
20	Chelatna Lake	1,2,3,4	b
21	Peters Hills	1,2,3,4	b
22	Talkeetna	3,4,5,6,7	e
23	Bald Mtn. Lake	3,4,5,6,7	e
24	Fog Lakes	2,3,4,5	b
25	Monahan Flat	2,3,4,5	b
26	Clearwater Lake	2,3,4,5	b
27	Sanford River	3,4,5	b
28	St Anne Lake	3,4,5	b
29	Lake Louise	3,4,5	b
30	Oshetna Lake	3,4,5	e
31	Little Melchina	2,3,4,5	f
32	Willow Airstrip	2,3,4,5	f
33	Independence Mine	2,3,4,5	f
34	Sheep Mountain	1,2,3,4	f
35	Tsaina River	2,3,4,5	f
36	Worthington Glacier	2,3,4,5	f
37	Lowe River		d
38	Valdez		d
39	Wolverine Glacier (a
40	Wolverine Glacier (i
41	Wolverine Glacier C		i
42	Gulkana Glacier A		h
43	Gulkana Glacier B		h
44	Gulkana Glacier C	3,4	a,f
45	Mankomen Lake	3,4	a,f
46	Tok Junction		h
47	Mentasta Pass		d
48	Haggard Creek		d
49	Fielding Lake	3,4,5	a,c
50	Ft. Greely	7	d
51	Granite Creek	2,3,4,5	f
52	Big Delta	2,3,4,5	f
53	French Creek	3,4,5	a
54	Little Salcha	3,4,5	a
55	Caribou Mine	3,4,5	a
56	Munson Ridge	3,4,5	a
57	Teuchet Creek	3,4,5	a
58	Upper Chena	3,4,5	a
59	Lower Chena	3,4,5	a
60	Monument Creek	3,4,5	a
61	Mt. Ryan	3,4,5	a
62	Little Chena Ridge	3,4,5	a
63	Colorado Creek	2,3,4,5	a,c
64	Cleary Summit	2,3,4,5	a,c
65	Yak Pasture	2,3,4,5	a
66	Bonanza Creek	2,3,4,5	a
67	Haystack Mtn.	2,3,4,5	a
68	Caribou Creek	2,3,4,5	a
69	Caribou Snow Pillow	2,3,4	b
70	Farewell Lake	2,3,4	b
71	Lake Minchumina	2,3,4	b
72	Wien Lake	2,3,4	a
73	Lake Todatonten	2,3,4,5	
74	Bettles Field		
75	Anaktuvuk Pass		

LEGEND

* Numerals refer to specific dates:

Numerals 1 = January 1
2 = February 1
3 = March 1
4 = April 1
5 = May 1
6 = June 1
7 = Special dates

** Letters refer to Agency that secures the snow survey,

a. - Soil Conservation Service
b. - Forest Service
c. - U.S. Army Corps. of Engineers
d. - U.S. Army Cold Regions Research and Engineering Lab
e. - Alaska Power Administration
f. - Bureau of Land Management
g. - U.S. Geological Survey
h. - U.S. Fish and Wildlife Service
i. - Naval Arctic Research Lab

*** Letters following the snow course number refer to:

A. - Snow Course and Aerial Stadia Marker
a. - Aerial Stadia Marker only
P. - Precipitation Storage Gage
S. - Snow Pillow
T. - Radio Telemetered

AGENCIES AND ORGANIZATIONS COOPERATING IN ALASKA SNOW SURVEYS

CANADA

Department of Indian and Northern Affairs, Northern
Natural Resources and Environment, Yukon Territory

FEDERAL

Department of Agriculture
Forest Service
Institute of Northern Forestry
Tongass National Forest
Chugach National Forest
Soil Conservation Service

Department of Commerce
NOAA National Weather Service

Department of Defense
U. S. Army Corps of Engineers
U.S. Army Cold Regions Research and Engineering Laboratory

Department of Interior
Bureau of Land Management
Geological Survey
Alaska Power Administration
Fish and Wildlife Service

STATE

Alaska Department of Military Affairs, Division of Emergency Services
Alaska Department of Fish and Game
Alaska Department of Transportation
Alaska Department of Natural Resources, Division of Parks
Alaska Association of Soil Conservation Sub-districts
Alaska Soil Conservation District
University of Alaska
Alaska Experiment Station
Geophysical Institute
Alaska Department of Natural Resources, Division of Forest Land and
Water
Alaska Department of Natural Resources, Division of Geological and
Geophysical Surveys

MUNICIPALITIES

Municipality of Anchorage

PRIVATE

Mt. Alyeska Resort, Inc.
NANA Regional Corporation

INDEX OF ALASKA SNOW COURSES

MAP NO.	COURSE NAME	COURSE NO. * *	ELEV.	LAT.	LONG.	MEAS. DATES *	MEAS. * BY *	MAP NO.	COURSE NAME	COURSE NO. * *	ELEV.	LAT.	LONG.	MEAS. DATES *	MEAS. * BY *
1	Arctic Valley #1	49MM1	500	61°13'N	149°40'W	2,3,4,5	c	76	Chandalar Lake	48SS1A	2040	67°30'N	148°30'W	3,4	a
2	Arctic Valley #2	49MM2	1000	61°13'N	149°37'W	2,3,4,5	c	77	Squaw Lake	48SS2a	2150	67°33'N	148°15'W	3,4	a
3	Arctic Valley #3	49MM3	2030	61°14'N	149°35'W	2,3,4,5	c	78	Arctic Village	45TT1A	2300	68°05'N	145°35'W	3,4	a
4	Arctic Valley #4	49MM4	2330	61°14'N	149°33'W	2,3,4,5	c	79	Koness Lake	44SS1A	1790	67°55'N	144°08'W	3,4	a
5	Arctic Ski Bowl	49MM5	3000	61°15'N	149°31'W	2,3,4,5	c	80	Coleen River	42SS1A	1100	67°44'N	142°28'W	3,4,7	a
6	Ship Creek	49MM7PS	1750	61°08'N	149°28'W	2,3,4,5	a	81	Vundik Lake	43SS1a	950	67°23'N	143°45'W	3,4	a
7	Indian Pass	49MM8APST	2350	61°05'N	149°29'W	2,3,4,5	a	82	Venetie	46SS1A	610	67°03'N	146°25'W	3,4,7	a
8	Bird Creek	49MM6A	2350	61°06'N	149°20'W	2,3,4,5,7	a	83	Fort Yukon	45RR1AM	430	66°35'N	145°15'W	3,4,7	a
9	South Campbell Creek	49MM11	1200	61°08'N	149°42'W	2,3,4,5	a	84	Black River	42RR1A	650	66°36'N	142°45'W	3,4,7	a
10	Mt. Alyeska	49LL1S	1200	60°57'N	149°05'W	2,3,4,5	a,b	85	Circle City	44QQ3A	600	65°50'N	144°05'W	3,4,7	a
11	Bertha Creek	49LL2	850	60°45'N	149°51'W	2,3,4,5	a	86	Circle Hot Springs	44QQ5	860	65°29'N	144°39'W	3,4	a
12	Kenai Summit	49LL3	1390	60°40'N	149°28'W	2,3,4,5	a	87	Dempsey Creek	41RR2A	950	66°06'N	141°48'W	3,4	a
13	Moose Paaa	49LL4	700	60°31'N	149°30'W	2,3,4,5	a	88	Nation River	41QQ1a	3050	65°25'N	141°40'W	3,4	f
14	Jean Lake	50LL1	620	60°31'N	150°11'W	2,3,4,5	a	89	Eagle Village	41PP1A	900	64°08'N	141°08'W	3,4,7	f
15	Bridge Creek (UP)	51KK1	1300	59°42'N	151°28'W	3,4,5	a	90	Boundary	41PP3A	3300	64°05'N	141°27'W	3,4	f
16	Bridge Creek (LO)	51KK2	1100	59°40'N	151°32'W	3,4,5	a	91	Chicken Airstrip	41PP2A	1650	64°05'N	141°45'W	3,4,7	f
17	McArthur	52LL1A	120	61°00'N	152°00'W	2,3,4,5	a,c	92	Mt. Fairplay	42001a	3100	63°42'N	142°17'W	3,4,5	f
18	Alexander Lake	50MM1A	200	61°45'N	150°54'W	2,3,4,5	a,c	93	Douglas Ski Bowl	34JJ1	1640	58°16'N	134°27'W	3,4,5	b
19	Skwentna	51MM1A	160	61°58'N	151°12'W	2,3,4,5	a,c	94	Cropley Lake	34JJ2	1650	58°16'N	134°31'W	1,2,3,4	b
20	Chelatna Lake	51NN1a	1650	62°31'N	151°29'W	2,3,4,5	a,c	95	Eagle Crest	34JJ3	1000	58°17'N	134°32'W	1,2,3,4	b
21	Peters Hills	50NN1a	2010	62°31'N	150°57'W	2,3,4,5	a,c	96	Fish Creek	34JJ4	500	58°19'N	134°33'W	1,2,3,4	b
22	Talkeetna	50NN2	350	62°18'N	150°05'W	2,3,4,5	a,c	97	Upper Long Lake	33JJ2aS	1000	58°11'N	133°53'W	3,4,5,6,7	e
23	Bald Mtn. Lake	49NN1A	2150	62°15'N	149°45'W	2,3,4,5	a,c	98	Speel River	33JJ3A	280	58°09'N	133°43'W	3,4,5,6,7	e
24	Fog Lakes	48NN2A	2120	62°47'N	148°29'W	2,3,4,5	a,c	99	Petersburg Reservoir	32HH1	550	56°47'N	132°56'W	2,3,4,5	b
25	Monahan Flat	47001APST	2710	63°18'N	147°39'W	2,3,4,5	a,c	100	Mitkof Island	32HH2	1050	56°46'N	132°56'W	2,3,4,5	b
26	Clearwater Lake	46NN1A	3100	62°59'N	146°58'W	2,3,4,5	a,c	101	Crystal Lake	32HH3	1375	56°36'N	132°50'W	2,3,4,5	b
27	Sanford River	45NN2A	2280	62°13'N	145°04'W	2,3,4,5	a,c	102	Harriet Top	31GG1	2000	55°29'N	131°37'W	3,4,5	b
28	St Anne Lake	46MM1A	1990	61°53'N	146°03'W	2,3,4,5	a,c	103	Hunt Saddle	31CC2	1500	55°30'N	131°37'W	3,4,5	b
29	Lake Louise	46NN2A	2400	62°17'N	146°30'W	2,3,4,5	a,c	104	Lake Shore	31CC3	660	55°29'N	131°36'W	3,4,5	b
30	Oshetna Lake	47NN1A	2950	62°23'N	147°29'W	2,3,4,5	a,c	105	Log Cabin (B.C.)	34KK1	2880	59°45'N	134°58'W	3,4,5	e
31	Little Nelchina	47NN2a	4160	62°07'N	147°36'W	2,3,4,5	a,c	106	Five Mile Camp	49RR1	400	65°55'N	149°48'W	2,3,4,5	f
32	Willow Airstrip	50MM2	150	61°45'N	150°03'W	2,3,4,5	a,c	107	Thirty Mile	50RR2a	1300	66°13'N	150°15'W	2,3,4,5	f
33	Independence Mine	49MM10	3300	61°45'N	149°25'W	3,4,5	a	108	Prospect Creek	50RR1	980	66°47'N	150°45'W	2,3,4,5	f
34	Sheep Mountain	47MM2	2900	61°47'N	147°30'W	3,4,5	a	109	Coldfoot	50SS1	1000	67°16'N	150°10'W	1,2,3,4	f
35	Tsaina River	45MM4	1500	61°12'N	145°30'W	3,4,5	a	110	Dietrich Camp	49SS1A	1550	67°42'N	149°45'W	2,3,4,5	f
36	Worthington Glacier	45MM2	2400	61°10'N	145°45'W	3,4,5	a	111	Table Mountain	49SS3a	2200	67°58'N	149°45'W	2,3,4,5	f
37	Lowe River	45MM3	550	61°06'N	145°50'W	3,4,5	a	112	Toolik River	49TT1PT	3100	68°37'N	149°26'W	7	d
38	Valdez	46MM2	50	61°08'N	146°20'W	2,3,4,5	a	113	Sagwon	48UU1P	1000	69°26'N	148°34'W	7	d
39	Wolverine Clacier (A)	48LL1	2130	60°23'N	148°54'W	1,2,4,5,6,7	g	114	Prudhoe Bay	48VV1P	30	70°15'N	148°30'W	7	a
40	Wolverine Clacier (B)	48LL2	3610	60°25'N	148°55'W	2,3,4,5,6,7	g	115	Barrow	56WW1P	15	71°20'N	156°40'W	7	i
41	Wolverine Calcier C	48LL3	4430	60°25'N	148°55'W	1,2,4,6,7	g	116	Meade River	57VV1P	200	70°29'N	157°25'W	7	i
42	Gulkana Clacier A	45006	4590	63°15'N	145°29'W	2,3,4,5,6,7	g	117	Barter Island	43VV1P	15	70°08'N	143°37'W	7	h
43	Culkana Clacier B	45007	5480	63°17'N	145°26'W	2,3,4,5,6,7	g	118	Kavik River	47UU1P	200	69°30'N	147°00'W	7	h
44	Culkana Clacier C	45008	6360	63°19'N	145°29'W	5,6,7	g	119	Candle	61QQ1P	20	66°55'N	161°56'W	3,4	a,f
45	Mankomen Lake	44NN1	3050	63°00'N	144°32'W	2,3,4,5	a	120	Kugruk River	62QQ1P	225	65°40'N	162°27'W	3,4	a,f
46	Tok Junction	43001	1650	63°18'N	143°00'W	2,3,4,5	a	121	Jago River	43UU1P	550	69°42'N	143°36'W	7	h
47	Mentasta Pass	43NN1	2430	62°51'N	143°30'W	2,3,4,5	a	122	Chandalar Shelf	49TT2P	3400	68°05'N	149°29'W	7	d
48	Haggard Creek	45NN1A	2540	62°42'N	145°28'W	2,3,4,5	a	123	Atigun Pass	49TT3SP	4900	68°08'N	149°38'W	7	d
49	Fielding Lake	45001A	3000	63°18'N	145°33'W	2,3,4,5	a	124	Oevils Canyon	49NN2a	1350	62°49'N	149°18'W	2,3,4,5	a,c
50	Ft. Creely	45005	1420	63°57'N	145°45'W	1,2,3,4,5,7	a	125	Atigun Camp	49TT4P	3400	68°10'N	149°26'W	7	d
51	Cranite Creek	45004S	1240	63°57'N	145°24'W	1,2,3,4,5,7	a	126	Hess Creek	49QQ1	1000	65°46'N	149°23'W	2,3,4,5	f
52	Big Delta	45PP1	980	64°14'N	145°58'W	2,3,4,5	a	127	Isom Creek	49QQ2	1675	65°50'N	149°30'W	2,3,4,5	f
53	French Creek	46PP2MA	2010	64°43'N	146°40'W	2,3,4,5,7	a	128	Little Willow Creek	49MM12a	2100	61°59'N	149°42'W	3,4,5	a
54	Little Salcha	46PP3	1500	64°38'N	146°44'W	2,3,4,5,7	a	129	Kashwitna River Cirque	49MM13a	3900	61°57'N	149°21'W	3,4,5	a
55	Caribou Mine	45PP2A	1115	64°40'N	145°40'W	2,3,4,5,7	a	130	Upper Kashwitna River	48MM1a	4300	61°57'N	148°59'W	3,4,5	a
56	Munson Ridge	46PPP1PST	3100	64°52'N	146°13'W	2,3,4,5,7	a	131	Sheep Creek Cirque	49NN3a	3000	62°06'N	149°37'W	3,4,5	a
57	Teuchet Creek	45PPP3PST	1640	64°57'N	145°31'W	2,3,4,5	a	132	Sheep River	49NN4a	4100	62°08'N	149°07'W	3,4,5	a
58	Upper Chena	44QQ1PST	3000	65°07'N	144°55'W	2,3,4,5,7	a	133	Talkeetna River Pass	48NN3a	5100	62°11'N	148°24'W	3,4,5	a
59	Lower Chena	44QQ6	2000	65°04'N	144°59'W	2,3,4,5,7	a	134	Middle Fork Iron Creek	48NN4a	4750	62°19'N	148°58'W	3,4,5	a
60	Monument Creek	45QQ2	1900	65°03'N	145°55'W	2,3,4,5	a	135	Talkeetna River	48NNSa	2280	62°29'N	148°39'W	3,4,5	a
61	Mt. Ryan	46QQ1PST	2750	65°15'N	146°09'W	2,3,4,5,7	a	136	Rainbow Lake	49NN5a	1350	62°19'N	149°19'W	3,4,5	a
62	Little Chena Ridge	46QQ2PST	2200	65°08'N	146°32'W	2,3,4,5,7	a	137	Chunina River	49NN6a	1750	62°32'N	149°46'W	3,4,5	a
63	Colorado Creek	46PP4S	750	64°52'N	146°39'W	1,2,3,4,5,7	a	138	Jack River	48001	2450	63°24'N	148°40'W	2,3,4,5	a,c
64	Cleary Summit	47QQ1A	2230	65°03'N	147°24'W	1,2,3,4,5,7	a	139	East Fork Susitna River	46001a	4775	63°19'N	146°55'W	2,3,4,5	a,c
65	Yak Pasture	47PP1	540	64°52'N	147°55'W	2,3,4,5	a	140	Capitol Site	49MM14A	860	61°42'N	149°49'W	2,3,4,5	a
66	Bonanza Creek	48PP1	1150	64°45'N	148°20'W	2,3,4,5	b	141	Mt. Sullion	49MM15A	1400	61°44'N	149°46'W	2,3,4,5	a
67	Haystack Mtn.	47QQ2	1950	65°08'N	147°38'W	2,3,4,5	d	142	Deception Creek	49MM16A	1100	61°41'N	149°41'W	2,3,4,5	a
68	Caribou Creek	47QQ3	1440	65°09'N	147°35'W	2,3,4,5	d	143	North Houston	49MM17A	500	61°40'N	149°51'W	2,3,4,5	a
69	Caribou Snow Pillow	47QQ4S	1025	65°08'N	147°32'W	2,3,4,5,7	d	144	Pass Creek	49LL5	1200	60°46'N	149°41'W	1,2,3,4	b
70	Farewell Lake	53NN1A	1090	62°34'N	153°35'W	3,4	a	145	Fox Creek	49LL6	1500	60°44'N	149°43'W	1,2,3,4	b
71	Lake Minchumina	52001A	730	63°53'N	152°18'W	3,4	a	146	Resurrection Pass	49LL7	2280	60°41'N	149°48'W	1,2,3,4	b
72	Wien Lake	51PP1A	1020	64°22'N	151°18'W	3,4	a	147	Demonstration Forest	51KK3	770	59°40'N	151°38'W	2,3,4,5	a
73	Lake Todatonten	52RR1a	980	66°10'N	152°55'W	3,4	a								
74	Bettles Field	51RR1PST	640	66°35'N	151°32'W	3,4	a								
75	Anaktuvuk Pass	51TT1A	2100	68°09'N	151°41'W	3,4	a								

LEGEND

* Numerals refer to specific dates:

- Numerals 1 = January 1
2 = February 1
3 = March 1
4 = April 1
5 = May 1
6 = June 1
7 = Special dates

** Letters refer to Agency that secures the snow survey,

- a. - Soil Conservation Service
b. - Forest Service
c. - U.S. Army Corps. of Engineers
d. - U.S. Army Cold Regions Research and Engineering Lab
e. - Alaska Power Administration
f. - Bureau of Land Management
g. - U.S. Geological Survey
h. - U.S. Fish and Wildlife Service
i. - Naval Arctic Research Lab

*** Letters following the snow course number refer to:

- A. - Snow Course and Aerial Stadio Marker
a. - Aerial Stadio Marker only
P. - Precipitation Storage Gage
S. - Snow Pillow
T. - Radio Telemetered

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